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L2	696649	voice talk conferenc\$5 voip phone telephone	US-PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	ON	2006/03/16 17:54
L3	7889	1 and 2	US-PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	ON	2006/03/16 17:54
L4	12147813	@ad<"20020103"	US-PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	ON	2006/03/16 17:54
L5	2429	4 and 3	US-PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	ON	2006/03/16 17:54
L6	60446	"international business machines". as.	US-PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	ON	2006/03/16 17:55
L7	2270	5 not 6	US-PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	ON	2006/03/16 17:55
L8	6065	709/204-207.ccls.	US-PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	ON	2006/03/16 17:55
L9	221	7 and 8	US-PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	ON	2006/03/16 17:55
S1	1	"20020002313"	US-PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	ON	2006/03/16 16:20
S2	1	"20020023131"	US-PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	ON	2006/03/16 17:53

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141 iMobile: a proxy-based platform for mobile services



Chung-Hwa Herman Rao, Yih-Fam Robin Chen, Di-Fa Chang, Ming-Feng Chen July 2001 Proceedings of the first workshop on Wireless mobile internet

Publisher: ACM Press

Full text available: pdf(829.58 KB)

Additional Information: full citation, abstract, references, citings, index terms, review

iMobile is a proxy-based platform that addresses the research issues in building mobile services, iMobile acts as a massage gateway that allows mobile devices using various protocols on different access networks to relay messages to each other. It also allows these clients to access internet services, corporate databases, and to control various networked devices. iMobile implements three key abstractions: devlet, infolet, and applet. A devlet is a driver attached to ...

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Keywords: CDPD, GSM, IMAP, POP3, SMS, TCP/IP, TDMA, WAP, X10, home network, instant messaging, mobile computing, proxy, telnet, wireless

142 Comparing the QoS of Internet audio mechanisms via formal methods



Alessandro Aldini, Marco Bernardo, Roberto Gorrieri, Marco Roccetti

January 2001 ACM Transactions on Modeling and Computer Simulation (TOMACS), Volume 11 Issue 1

Publisher: ACM Press

Full text available: pdf(256.38 KB)

Additional Information: full citation, abstract, references, citings, index terms

We compute and compare the quality of service (QoS) of three soft real-time applications for audio transmissions over the Internet. The main metric we want to capture is the average packet audio playout delay vs. the packet loss rate as perceived by users. Other metrics we take into account are the packet loss rate vs. the receiving buffer capacity, the lateness of discarded packets vs. average packet audio playout delay, and the waiting time in the receiver buffer for the played packets vs ...

Keywords: Internet audio mechanisms, case studies, discrete event simulation, quality of service, software tools, stochastic process algebras

143 Highly efficient voice-data integration over medium and high capacity wireless TDMA channels



P. Koutsakis, M. Paterakis

January 2001 Wireless Networks, Volume 7 Issue 1

Publisher: Kluwer Academic Publishers

Full text available: pdf(176.79 KB) Additional Information: full citation, references, index terms

Keywords: MAC protocol, QoS, voice-data integration

144 Columns: Risks to the public in computers and related systems

Peter G. Neumann

January 2001 ACM SIGSOFT Software Engineering Notes, Volume 26 Issue 1

Publisher: ACM Press

Full text available: pdf(3.24 MB)

Additional Information: full citation

145 Towards junking the PBX: deploying IP telephony

Wenyu Jiang, Jonathan Lennox, Henning Schulzrinne, Kundan Singh

January 2001 Proceedings of the 11th international workshop on Network and operating systems support for digital audio and video

Publisher: ACM Press

Full text available: pdf(312.40 KB)

Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>citings</u>, <u>index</u> terms

We describe the architecture and implementation of our Internet teleph ony test-bed intended to replace the departmental PBX (telephone switch). It interworks with the traditional telephone networks via a PSTN/IP gateway. It also serves as a corporate or campus infrastructure for existing and future services like web, email, video and streaming media. Initially intended for a few users, it will eventually replace the plain old telephones from our offices, due to the cost benefit and new ...

Keywords: PSTN/IP interoperability, SIP, VoIP test-bed, internet telephony deployment

146 Resource allocation and management in DiffServ networks for IP telephony



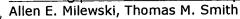
Maarten Büchli, Danny De Vleeschauwer, Jan Janssen, Annelies Van Moffaert, Guido H. Petit January 2001 Proceedings of the 11th international workshop on Network and operating systems support for digital audio and video

Publisher: ACM Press

Full text available: pdf(251.15 KB) Additional Information: full citation, abstract, references, index terms

This paper discusses resource allocation and management in Differentia ted Services (DiffServ) networks, particularly in the context of IP telephony. We assume that each node uses Weighted Fair Queuing (WFQ) schedulers in order to provide Quality of Service (QoS) to aggregates of traffic. All voice traffic destined for a certain output interface is aggregated into a single queue. When a voice flow traverses a node, its packets are placed in this queue; which is drained at a certain rate, de ...

147 Providing presence cues to telephone users



December 2000 Proceedings of the 2000 ACM conference on Computer supported cooperative work

Publisher: ACM Press

Full text available: pdf(254.69 KB)

Additional Information: full citation, abstract, references, citings, index terms

A significant problem with telephone communication is that callers do not have enough awareness about the Personal Presence of people they want to call. The result can be unwanted, interrupting calls. Thelive addressbookis an application that helps users make more informed telephone calls and teleconferences, from anywhere, via their wireless PDA or desktop browser. Unlike other network-based address books, which maintain static information, the live addressbook can displa ...

Keywords: awareness, mobility, presence, telecommunication

148 Interaction and outeraction: instant messaging in action

Bonnie A. Nardi, Steve Whittaker, Erin Bradner



Publisher: ACM Press

Full text available: pdf(163.10 KB)

Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>citings</u>, <u>index</u> terms

We discuss findings from an ethnographic study of instant messaging (IM) in the workplace and its implications for media theory. We describe how instant messaging supports a variety of informal communication tasks. We document the affordances of IM that support flexible, expressive communication. We describe some unexpected uses of IM that highlight aspects of communication which are not part of current media theorizing. They pertain to communicative processes people use to connect with eac ...

Keywords: computer-mediated communication, informal communication, instant messaging, media theory, outeraction

149 Interpersonal trust and common ground in electronically mediated communication

Steve Greenspan, David Goldberg, David Weimer, Andrea Basso

December 2000 Proceedings of the 2000 ACM conference on Computer supported cooperative work

Publisher: ACM Press

Full text available: pdf(222.70 KB)

Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>citings</u>, <u>index</u> terms

Communication and commerce by web or phone creates benefits and challenges for both buyer and seller. Websites provide convenience and visualization; telephones provide voice and real-time interaction. To combine key elements of these experiences, we developed PhoneChannel. Using PhoneChannel, a PC user while talking on the telephone can display visuals on the other person's television. How do these different media affect the consumer experience? In a recent laboratory study, prospective ho ...

Keywords: WWW, consumers, conversation, telephony, television

150 Out of thin air



Aaron Weiss

December 2000 netWorker, Volume 4 Issue 4

Publisher: ACM Press

Full text available: pdf(73.04 KB)

#in html(18.26 KB)

Additional Information: full citation, index terms

151 <u>Design collaboration and mediating technologies: Teaming together apart: emergent patterns of media use in collaboration at a distance</u>

Angela Graveline, Cheryl Geisler, Michael Danchak

September 2000 Proceedings of IEEE professional communication society international professional communication conference and Proceedings of the 18th annual ACM international conference on Computer documentation: technology & teamwork

Publisher: IEEE Educational Activities Department

Full text available: pdf(932.67 KB) Additional Information: full citation, abstract, references

In this paper, we examine the emergent patterns of media use in collaboration at a

.. 3/16/06



distance. Two teams working at a distance to complete a software specifications project were observed using a mix of email, web archiving, synchronous chat, and applications sharing. Extending Media Richness Theory, we describe the multiplicity of communication situations these teams faced in terms of group management, interpersonal work, task work, and tools/media issues. We suggest that despite differences betwe ...

152 The Next Bang: The Explosive Combination of Embedded Linux, XML and Instant

Messaging

Doc Searls

September 2000 Linux Journal

Publisher: Specialized Systems Consultants, Inc.

Full text available: html(34.52 KB) Additional Information: full citation, references, index terms

153 W-mail: an electronic mail system for wearable computing environments



Hirotaka Ueda, Masahiko Tsukamoto, Shojiro Nishio August 2000 Proceedings of the 6th annual interior

August 2000 Proceedings of the 6th annual international conference on Mobile computing and networking

Publisher: ACM Press

Full text available: pdf(1.99 MB)

Additional Information: full citation, abstract, references, index terms

This paper describes an e-mail system for wearable computing environments. In this system, we extend the conventional mail format and the server/client(browser) architecture by considering the specific features of wearable computing environments, i.e., full time operation, hands-free use of computer, and close relationship to our daily life. A mail author can specify the behavior of his/her mail by embedding several useful commands in the mail. A user can specify in the mail various conditi ...

Keywords: e-mail, location dependent service, wearable computing

154 Delay jitter performance of video traffic in a cellular wireless ATM network





T. C. Wong, J. W. Mark, K. C. Chua August 2000 Proceedings of the 3rd ACM international workshop on Wireless mobile

multimedia
Publisher: ACM Press

Full text available: pdf(723.47 KB)

Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>citings</u>, <u>index</u> <u>terms</u>

The delay jitter performance of video traffic, modeled using a Markov Modulated Poisson Process (MMPP), in a cellular wireless ATM network is analyzed. The uplink MAC (Medium Access Control) protocol is implemented by an enhanced TDMA/DR (Time Division Multiple Access with Dynamic Reservation) MAC protocol. Voice, compressed video and data are used as test traffic. The delay jitter (or cell delay variation) of MMPP video is evaluated using approximate analysis and computer simulation, while ...

155 Application-layer mobility using SIP



Henning Schulzrinne, Elin Wedlund

July 2000 ACM SIGMOBILE Mobile Computing and Communications Review, Volume 4 Issue 3

Publisher: ACM Press

Full text available: pdf(1.34 MB)

Additional Information: full citation, abstract, citings, index terms

Supporting mobile Internet multimedia applications requires more than just the ability to maintain connectivity across subnet changes. We describe how the Session Initiation Protocol (SIP) can help provide terminal, personal, session and service mobility to applications ranging from Internet telephony to presence and instant messaging. We also briefly discuss application-layer mobility for streaming multimedia applications initiated by RTSP.

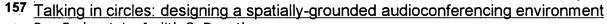
156 Linux for Suits: The Message

Doc Searls

July 2000 Linux Journal

Publisher: Specialized Systems Consultants, Inc.

Full text available: html(8.65 KB) Additional Information: full citation, index terms





Roy Rodenstein, Judith S. Donath

April 2000 Proceedings of the SIGCHI conference on Human factors in computing systems

Publisher: ACM Press

Full text available: pdf(1.28 MB)

Additional Information: full citation, abstract, references, citings, index terms

This paper presents Talking in Circles, a multimodal audioconferencing environment whose novel design emphasizes spatial grounding with the aim of supporting naturalistic group interaction behaviors. Participants communicate primarily by speech and are represented as colored circles in a two-dimensional space. Behaviors such as subgroup conversations and social navigation are supported through circle mobility as mediated by the environment and the crowd and distance-based attenuation o ...

Keywords: audio, computer-mediated communication, drawing, gesture, interaction design, media space, multicast, multimodal interfaces, representation, social navigation, speech

158 Virtual private networks in the 21st century



Dennis Fowler

December 1999 netWorker, Volume 3 Issue 4

Publisher: ACM Press

Full text available: pdf(369.58 KB) html(6.75 KB)

Additional Information: full citation, index terms

159 Strategic outlook: from ears to eyes



Gert Staal

November 1999 interactions, Volume 6 Issue 6

(12.60 KB)

Publisher: ACM Press

Full text available: pdf(686.42 KB)

Additional Information: full citation, index terms

160 The mobile people architecture



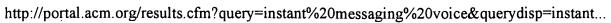
Petros Maniatis, Mema Roussopoulos, Ed Swierk, Kevin Lai, Guido Appenzeller, Xinhua Zhao, Mary Baker

July 1999 ACM SIGMOBILE Mobile Computing and Communications Review, Volume 3 Issue 3

Publisher: ACM Press

Full text available: 📆 pdf(946.60 KB) Additional Information: full citation, abstract, citings, index terms

People are the outsiders in the current communications revolution. Computer hosts, pagers, and telephones are the addressable entities throughout the Internet and telephony systems. Human beings, however, still need application-specific tricks to be identified, like email addresses, telephone numbers, and ICQ IDs. The key challenge today is to find people and communicate with them personally, as opposed to communicating merely with their possibly inaccessible machines---cell phones that are turn ...



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